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A. Deville and **T. Turpin** 1777 Indicators of research relevance to ecologically sustainable development and their integration with other R&D indicators in the Asia–Pacific region

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P. Rogers and **K. F. Jalal** 1813 Used cars, used environments: how to choose one?

F.-M. Meyer and J. R. E. Harger 1841 Assessment of UN agency interest areas regarding environmental activities in Indonesia

A. M. Friend 1865 Sustainable development indicators: exploring the objective function

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M. J. Kanters and **R. Louw** 1889 Slow combustion of pentachlorophenol in toluene

E. R. Altwicker 1897 Relative rates of formation of polychlorinated dioxins and furans from precursor and *de novo* reactions

G. J. Stroomberg, C. Reuther, I. Kozin, T. C. van Brummelen, C. A. M. van Gestel, C. Gooijer and **W. P. Cofino** 1905 Formation of pyrene metabolites by the terrestrial isopod *Porcellio scaber*

N. B. K. Murthy, P. N. Moza, K. Hustert, K. Raghu and **A. Kettrup** 1915 Photolysis of thiabendazole in aqueous solution and in the presence of fulvic and humic acids

K. B. Sherrard, P. J. Marriott, R. G. Amiet, M. J. McCormick, R. Colton and **K. Millington** 1921 Spectroscopic analysis of heterogeneous photocatalysis products of nonylphenol- and primary alcohol ethoxylate nonionic surfactants

E. Deml, I. Mangelsdorf and **H. Greim** 1941 Chlorinated dibenzodioxins and dibenzofurans (PCDD/F) in blood and human milk of non-occupationally exposed persons living in the vicinity of a municipal waste incinerator

P. A. W. van Hees, A.-M. T. Andersson and **U. S. Lundström** 1951 Separation of organic low molecular weight aluminium complexes in soil solution by liquid chromatography

P. A. Van Sprang, C. R. Janssen, M. Sabayasachi, F. Benijts and **G. Persoone** 1967 Assessment of ammonia toxicity in contaminated sediments of the Upper Scheldt (Belgium): the development and application of toxicity identification evaluation procedures

T. Hsu and **Fuh-Yeu Deng** 1975 Studies on the susceptibility of various organs of zebrafish (*Brachydanio rerio*) to benzo(a)pyrene-induced DNA adduct formation

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